

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/608,784
				Filing Date	June 26, 2003
				First Named Inventor	Eran Steinberg
				Art Unit	2624
				Examiner Name	Yuan, Kathleen S.
Sheet	1	of	5	Attorney Docket Number	FN-102F-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	4448510	05-15-1984	Murakoshi	
	2.	4970683	11-13-1990	Harshaw et al.	
	3.	4975969	12-04-1990	Tal	
	4.	5008946	04-16-1991	Ando	
	5.	5161204	11-03-1992	Hutcheson et al.	
	6.	5331544	07-19-1994	Lu et al.	
	7.	5465308	11-07-1995	Hutcheson et al.	
	8.	5715325	02-03-1998	Bang et al.	
	9.	5771307	06-23-1998	Lu et al.	
	10.	5850470	12-15-1998	Kung et al.	
	11.	5905807	05-18-1999	Kado et al.	
	12.	6028960	02-22-2000	Graf et al.	
	13.	6061055	05-09-2000	Marks	
	14.	6108437	08-22-2000	Lin	
	15.	6128398	10-03-2000	Kuperstein et al.	
	16.	6134339	10-17-2000	Luo	
	17.	6173068	01-09-2001	Prokoski	
	18.	6246790	06-12-2001	Huang et al.	
	19.	6426779	07-30-2002	Noguchi et al.	
	20.	6463163	10-08-2002	Kresch	
	21.	6529630	03-04-2003	Kinjo	
	22.	6549641	04-15-2003	Ishikawa et al.	
	23.	6661907	12-09-2003	Ho et al.	
	24.	6747690	06-08-2004	Molgaard	
	25.	6959109	10-25-2005	Moustafa	
	26.	7027621	04-11-2006	Prokoski	
	27.	7039222	05-02-2006	Simon et al.	
	28.	7042511	05-09-2006	Lin	
	29.	7043465	05-09-2006	Pirim	
	30.	7106374	09-12-2006	Bandera et al.	
	31.	7194114	03-20-2007	Schneiderman	
	32.	7227976	06-05-2007	Jung et al.	
	33.	7295233	11-13-2007	Steinberg et al.	
	34.	7315630	01-01-2008	Steinberg et al.	
	35.	7336821	02-26-2008	Ciuc et al.	
	36.	7362368	04-22-2008	Steinberg et al.	
	37.	7403643	07-22-2008	Ianculescu et al.	
	38.	7440593	10-21-2008	Steinberg et al.	

U.S. PATENT PUBLICATIONS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	39.	2001/0038714	11-08-2001	Masumoto et al.	
	40.	2002/0176609	11-28-2002	Hsieh et al.	
	41.	2003/0023974	01-30-2003	Dagtas et al.	
	42.	2003/0123713	07-03-2003	Geng	
	43.	2003/0169907	09-11-2003	Edwards et al.	

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Sheet	2	of	5	Attorney Docket Number	FN-102F-US

	44.	2004/0022435	02-05-2004	Ishida, Y.	
	45.	2004/0170397	09-02-2004	Ono	
	46.	2004/0175021	09-09-2004	Porter et al.	
	47.	2004/0179719	09-16-2004	Chen et al.	
	48.	2004/0228505	11-18-2004	Sugimoto	
	49.	2004/0264744	12-30-2004	Zhang et al.	
	50.	2005/0041121	02-24-2005	Steinberg et al.	
	51.	2005/0068446	03-31-2005	Steinberg et al.	
	52.	2005/0068452	03-31-2005	Steinberg et al.	
	53.	2005/0104848	05-19-2005	Yamaguchi et al.	
	54.	2005/0105780	05-19-2005	Ioffe	
	55.	2005/0140801	06-30-2005	Prilutsky et al.	
	56.	2005/0275721	12-15-2005	Ishii	
	57.	2006/0006077	01-12-2006	Mosher et al.	
	58.	2006/0008152	01-12-2006	Kumar et al.	
	59.	2006/0029265	02-09-2006	Kim et al.	
	60.	2006/0039690	02-23-2006	Steinberg et al.	
	61.	2006/0050933	03-09-2006	Adam et al.	
	62.	2006/0098875	05-11-2006	Sugimoto	
	63.	2006/0098890	05-11-2006	Steinberg et al.	
	64.	2006/0120599	06-08-2006	Steinberg et al.	
	65.	2006/0140455	06-29-2006	Costache et al.	
	66.	2006/0147192	07-06-2006	Jian et al.	
	67.	2006/0210264	09-21-2006	Yoshihiro	
	68.	2006/0257047	11-16-2006	Kameyama et al.	
	69.	2006/0268150	11-30-2006	Kameyama et al.	
	70.	2006/0269270	11-30-2006	Yoda et al.	
	71.	2006/0280380	12-14-2006	Li et al.	
	72.	2006/0285754	12-21-2006	Steinberg et al.	
	73.	2006/0291739	12-28-2006	Li et al.	
	74.	2007/0070440	03-29-2007	Li et al.	
	75.	2007/0071347	03-29-2007	Li et al.	
	76.	2007/0116379	05-24-2007	Corcoran et al.	
	77.	2007/0116380	05-24-2007	Ciuc et al.	
	78.	2007/0122056	05-31-2007	Steinberg et al.	
	79.	2007/0160307	07-12-2007	Steinberg et al.	
	80.	2007/0189606	08-16-2007	Ciuc et al.	
	81.	2007/0189748	08-16-2007	Drimbarean et al.	
	82.	2007/0189757	08-16-2007	Steinberg et al.	
	83.	2007/0201724	08-30-2007	Steinberg et al.	
	84.	2007/0296833	12-27-2007	Corcoran et al.	
	85.	2008/0013798	01-17-2008	Ionita et al.	
	86.	2008/0031498	02-07-2008	Corcoran et al.	
	87.	2008/0037827	02-14-2008	Corcoran et al.	
	88.	2008/0037838	02-14-2008	Ianculescu et al.	
	89.	2008/0037839	02-14-2008	Corcoran et al.	
	90.	2008/0037840	02-14-2008	Steinberg et al.	
	91.	2008/0043122	02-21-2008	Steinberg et al.	
	92.	2008/0049970	02-28-2008	Ciuc et al.	
	93.	2008/0055433	03-06-2008	Steinberg et al.	
	94.	2008/0075385	03-27-2008	David et al.	

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Sheet	3	of	5		

	95.	2008/0175481	07-24-2008	Petrescu et al.	
	96.	2008/0205712	08-28-2008	Ionita et al.	
	97.	2008/0240555	10-02-2008	Nanu et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	98.	EP 1 626 569	02-15-2006	Fuji Photo Film Co. Ltd.		
	99.	JP 05-164475	06-23-2005	Mitutoyo		
	100.	JP 06-005662	01-05-2006	Nippon Kogaku KK		
	101.	JP 06-254358	09-21-2006	Omron		
	102.	WO 07-095477	08-23-2007	FotoNation		
	103.	WO 07-095483	08-23-2007	FotoNation		
	104.	WO 07-095553	08-23-2007	FotoNation		
	105.	WO 08-015586	02-07-2008	FotoNation		
	106.	WO 08-018887	02-14-2008	FotoNation		
	107.	WO 08-023280	02-28-2008	FotoNation		
	108.	WO 08-104549	09-04-2008	FotoNation		

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	109.	Batur, A. et al., "Adaptive Active Appearance Models," IEEE, Vol. 14, No. 11, 11/2005, pp. 1707-1721.		
	110.	Buenaposada, J., "Efficiently Estimating 1-3, 16 Facial Expressions and Illumination in Appearance-Based Tracking," Proc. British Machine Vision Conf., 9/4/2006, XP002494036, 10 pages.		
	111.	Cootes, T. F. et al., "A Comparative Evaluation of Active Appearance Model Algorithms," Proc. 9 th British Machine vision Conf., Brit. Machine Vision Assoc., 1998, pp. 680-689.		
	112.	Cootes, T. F. et al., "Modeling Facial Shape and Appearance," Handbook of Face Recognition, Chapter 3, Springer, 2005, XP002494037, 26 pgs.		
	113.	Cootes, T. F. et al., "On Representing Edge Structure for Model Matching," CVPR Vol. 1, 2001, pp. 1114-1119.		
	114.	Crowley, J. et al., "Multi-Modal Tracking of Faces for Video Communication," In Computer Vision and Patent Recognition, 1997. http://citeseer.ist.psu.edu/crowley97multimodal.html		
	115.	Donner, Rene et al., "Fast Active Appearance Model Search using Canonical Correlation Analysis," IEEE, Vol. 28, No. 10, 10/2006, pp. 1690-1694.		
	116.	Edwards, G. J. et al., "Advances in Active Appearance Models," Proceedings of the 7th IEEE International Conference on Computer Vision (ICCV '99), vol. 1, pp. 137-142, Kerkyra, Greece, September 1999.		
	117.	Edwards, G. J. et al., "Learning to Identify and Track Faces in Image Sequences," Automatic Face and Gesture Recognition, Proc., IEEE, 4/14/1998, XP010277593, pp. 260-265.		
	118.	Feraud, R. et al., "A Fast and Accurate Face Detector Based on Neural Networks," IEEE, Vol. 23, No. 1, Jan. 2001, pp. 42-53.		
	119.	Froba, B. et al., "Face Detection With The Modified Census Transform," Dept. of Applied Elect., Proceedings of 6 th IEEE, 2004, pp. 1-6, XP-002455697.		

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known		
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Sheet	4	of	5	Attorney Docket Number		FN-102F-US

120.	Froba, B. et al., "Real Time Face Detection." Dept. of Applied Electronics, 2002, XP-2455696A, pp. 1-6.	
121.	Gerbrands, J., "On the Relationships Between SVD, KLT, and PCA, 1981, Pattern Recognition, Vol. 14, Nos. 1-6, pp. 375-381.	
122.	Goodall, Charles, "Procrustes Methods in the Statistical Analysis of Shape," Journal of the Royal Statistical Society, Series B., Vol. 53, No. 2, 1991, pp. 285-339.	
123.	Hou, Xinwen et al., "Direct Appearance Models," IEEE, 2001, pp. 1828-1833.	
124.	Huang et al., "Detection of human faces using decision trees" 2nd International Conference on Automatic Face and Gesture Recognition (FG '96), p. 248 IEEE Xplore http://doi.ieeecomputersociety.org/10.1109/AFGR/1996.html , 2 pgs.	
125.	International Search Report and Written Opinion, PCT/IB2007/003724, 8/28/08, 9 pgs.	
126.	International Search Report and Written Opinion, PCT/EP2007/006540, 11/8/07, 11 pgs.	
127.	International Search Report and Written Opinion, PCT/EP2007/006540, 11/7/08, 6 pgs.	
128.	International Search Report and Written Opinion, PCT/EP2008/001510, 5/29/08, 13 pgs.	
129.	International Search Report and Written Opinion, PCT/EP2008/052329, 9/15/08, 12 pgs.	
130.	Jones, M. et al., "Fast Multi-View Face Detection," Mitsubishi Electric Research Laboratories, 2003, http://www.merl.com/papers/docs/TR2003-96.pdf , 10 pgs.	
131.	Kouzani, A. Z., "Illumination-Effects Compensation in Facial Images," IEEE, 1999, p. VI-840-VI-844.	
132.	Lai, J. et al., "Face recognition using holistic Fourier in variant features," Pattern Recognition 34 (2001), pp. 95-109. http://digitalimaging.inf.brad.ac.uk/publication/pr34-1.pdf .	
133.	Lei, Z. et al., "A CBIR Method Based on Color-Spatial Feature," IEEE Region 10th Ann. Int. Conf. 1999 (TENCON'99, Cheju, Korea, 1999)	
134.	Lienhard, R. et al., "A Detector Tree of Boosted Classifiers for Real-Time Object Detection and Tracking," Proc. of the 2003 Intl. Conf. on Multimedia and Expo - Vo. 1, pp. 277-280 (2003), ISBN:0-7803-7965-9, Publisher IEEE Computer Society, Washington, DC, USA.	
135.	Matthews, I. et al., "Active appearance models revisited," International Journal of Computer Vision, vol. 60, no. 2, pp. 135-164, 2004.	
136.	Mekuz, N. et al., "Adaptive Step Size Window Matching for Detection," Proc. Of the 18 th Intl. Conf. on Pattern Recog., Vol. 2, 8/2006, pp. 259-262.	
137.	Mitra, S. et al., "Gaussian Mixture Models Based on the Frequency Spectra for Human Identification and Illumination Classification," Automatic Identification Advanced Tech., 4 th IEEE Workshop on Buffalo, NY, IEEE, 2005, pp. 245-250.	
138.	Nordstrom, M. M. et al., "The IMM Face Database: An Annotated Dataset of 240 Face Images," Informatics and Mathematical Modelling; Tech. Univ. of Denmark, Denmark: 2004.	
139.	Ohta, Y.-I. et al., "Color Information for Region Segmentation," Comp. Graphics and Image Processing, Academic Press, NY, Vol. 13, No. 3, 7/1/1980, XP008026458, pp. 222-241.	
140.	Romdhani, S. et al., "Face Identification by Fitting a 3D Morphable Model using Linear Shape and Texture Error Functions," European Conf. on Computer Vision, Berlin, DE, 1/1/2002, XP003018283, 15 pgs.	
141.	Ryu et al., "Coarse-to-Fine Classification for Image-Based Face Detection," Carnegie Mellon Univ., Pittsburgh, PA, 5/1999, ch. 6, p. 92, subsection 8.3.	
142.	Sharma, G. et al., "Digital Color Imaging," IEEE Transactions On Image Processing, vol. 6, No. 7, 1997, pp. 901-932.	
143.	Sim, T. et al., "The CMU Pose, Illumination, and Expression (PIE)," Database of Human Faces Robotics Institute, Carnegie Mellon University, Pittsburgh, PA, Tech. Report, CMU-RI-TR-01-02, January 2001, 9 pages.	
144.	Smeraldi, F. et al., "Facial Feature Detection by Saccadic Exploration of the Gabor Decomposition," Image Processing, 1998 Intl. Conf., 10/4/1998, pp. 163-167.	
145.	Soriano, M. et al., "Making Saturated Facial Images Useful Again," Proc. Of the Spie, Spie,	

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
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Sheet	5	of	5	Attorney Docket Number	FN-102F-US

	Bellingham, VA, Vol. 3826, 6/17/99, pp. 113-121.	
146.	Stegman, M. B. et al., "FAME - A Flexible Appearance Modelling Environment," IEEE Transactions on Medical Imaging, Vol. 22, No. 10, pp. 1319-1331.	
147.	Stegman, M. B. et al., "Multi-Band Modelling of Appearance," Image Vision Comp., Vol. 21, No. 1, 1/10/2003, XP009104697, pp. 61-67.	
148.	Stricker et al., "Similarity of Color Images," SPIE Proc., 1995, pp. 1-12.	
149.	Tianhorn, C. et al., "Texture Analysis and Classification with Tree-Structured Wavelet Transform," IEEE Trans. Of Image Processing, Vol. 2, No. 4, Oct. 1993, pp. 429-441.	
150.	Tjahyedi et al., "Application of the DCT Energy Histogram for Face Recognition," Proc. Of the 2 nd Intl. Conf. on Information Technology for Application, ICITA, 2004, pp. 305-310.	
151.	Tkalcic, M. et al., "Colour Spaces Perceptual, Historical and Applicational Background," IEEE, EUROCON, 2003, Sept. 22-24, 2003, Vol. 1, pp. 304-308.	
152.	Turk, M. et al., "Eigenfaces for Recognition," Journal of Cognitive Neuroscience, Mass. Institute of Technology, Vol. 3, No. 1, 1991, pp. 71-86.	
153.	Wan, S. J. et al., "Variance Based Color Image Quantization for Frame Buffer Display," Color Res. Applicat., Vol. 15, No. 1, 1990, pp. 52-58.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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